Sheet 1 of 1

37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT (Use several sheets if necessary)	Docket Number (Optional) 1011U-1	Patent Application Number 10/042,406
	Applicant Sheehan, J., et al.	RECEIVED APR 15 2003
	Issue Date	Group Art Unit 1645

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
C.S.M	6	3	9	1	5	5	9	5/21/2002	Brown et al.	435	6	5/2/2000
	6	2	1	4	5	5	7	4/10/01	Barnes et al.	435	6	6/6/00
	6	1	5	0	0	9	4	11/21/00	Maier et al.			5/23/97
	6	2	3	1	8	1	2	5/15/01	Rothberg, et al.	422	68.1	5/28/99
	6	0	0	7	2	3	1	12/28/99	Vijg, et al.	364	497	8/14/96

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO
C.S.M	9	9	1	1	8	2	3	3/11/99	WIPO	—	—		
	DE 10,062,566 A1							6/20/02	Germany	—	—	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C.S.M		Boehringer Mannheim, PCR Applications Manual, Boehringer Mannheim GmbH, Biochemica, Germany, pages 23, 27-53 and 109, 1995.
	/	Newton, CR, PCR Essential Data, published by Wiley & Sons, Inc. New York, pages 3, 24, 25, 53, 72-86, 1995.
	/	GORELENKOV, A., et al., "Set of Novel Tools for PCR Primer Design", BioTechniques 31(6):1326-1330 (2001)
	/	PROUTSKI, V., et al., "Primer Master: a new program for the design and analysis of PCR primers", Cabios 12(3):253-255 (1996).
	/	DOI, K., et al., "Greedy Algorithms for Finding a Small Set of Primers Satisfying Cover and Length Resolution Conditions in PCR Experiments", Genome Informatics Series 8:43-52 (1997).
	/	PLASTERER, T., "Primerselect: Primer and Probe design", Methods in Molecular Biology 70:291-302 (1997).
	/	PODOWSKI, R., et al., "MEDUSA: large scale automatic selection and visual assessment of PCR primer pairs", Bioinformatics 17(7): 656-657 (2001).
	/	KAMPKE, T., et al., "Efficient primer design algorithms", Bioinformatics 17(3):214-225 (2001).
	/	PESOLE, G., et al., "GeneUp: A Program to Select Short PCR Primer Pairs that Occur in Multiple Members of Sequence Lists", BioTechniques 25:112-123 (1998).

EXAMINER C. Mu	DATE CONSIDERED July 21, 2003

OIPE JC41 APR 14 2003 PATENT & TRADEMARK OFFICE

Substitute for form 1449A/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(use as many sheets as necessary)*	Application Number	Not Yet Assigned
	Filing Date	
	First Named Inventor	John B. Sheehan
	Art Unit	N/A
	Examiner Name	Not Yet Assigned

Sheet	1	of	3	Attorney Docket Number	HO-P02296US1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number — Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
C.M.	A	4,683,195	07-28-1987	Mullis et al.	
	B	4,683,202	07-28-1987	Mullis et al.	
	C	4,800,159	01-24-1989	Mullis et al.	
	D	4,965,188	10-23-1990	Mullis et al.	
	E	5,512,462	04-30-1996	Suzanne Cheng	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document — Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		NONE				

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(use as many sheets as necessary)*				Application Number	Not Yet Assigned
				Filing Date	
				First Named Inventor	John B. Sheehan
				Group Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	HO-P02296US1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
C/JM	F 1	CORMEN, T.H. ET AL., *Contents - Introduction to Algorithms*, 1994, 10 pp., MIT	
	G 1	SANCHEZ, G. ET AL., *Relative amplification efficiency of differently sized templates by long-distance PCR*, BioTechniques, Mar. 1998, pp. 400-402, vol. 24, no. 3.	
	H 1	BARNES, W.M., *PCR amplification of up to 35-kb DNA with high fidelity and high yield from λ bacteriophage*, Proc. Natl. Acad. Sci. USA, Mar. 1994, pp. 2216-2220, vol. 91, Genetics	
	I 1	CHENG, S., ET AL., *Effective amplification of long targets from cloned inserts and human genomic DNA*, Proc. Natl. Acad. Sci. USA, Jun. 1994, pp. 5695-5699, vol. 91, Genetics	
C/JM	J 1	COHEN, JON, *'Long PCR' leaps into larger DNA sequences*, SCIENCE, 03/18/94, pp. 1564-1565, vol. 263	
	~~K 1~~	~~Univ. of Washington Genome Center, 8 pp. printed 11/26/01 from www.genome.washington.edu.~~	
C/JM	L 1	CHENG, S., ET AL., *Long PCR*, NATURE, 06/23/94, pp. 684-685, vol. 369.	
	M 1	ZHANG, L-H, ET AL., *Long-distance PCR-based strategy for preparing knock-in vectors directly from ES cell genomic DNA*, BioTechniques, Nov. 1998, pp. 784-788, vol. 25.	
	N 1	LOUKIANOV, E.V., ET AL., *Identification of targeted embryonic stem cells using long-distance PCR*, BioTechniques, Sept. 1997, pp. 376-380, vol. 23.	
	O 1	TAYLOR, G.R., ET AL., *The polymerase chain reaction: from functional genomics to high-school practical classes*, Current Opinion in Biotechnology, 1998, pp. 35-42, vol. 9, Current Biology Ltd.	
	P 1	MIN, G-S, ET AL., *Long-distance genome walking using the long and accurate polymerase chain reaction*, BioTechniques, 1998, pp. 398-399, vol. 24, no. 3.	
	Q 1	SOROKIN, A., ET AL., *A new approach using multiplex long accurate PCR & yeast artificial chromosomes for bacterial chromosome mapping & sequencing*, GENOME RESEARCH, 1996, pp. 448-453, vol. 6, Cold Spring Harbor Lab. Press.	
	R 1	OHYA, Y., *LA-PCR-based quick method for identification of genes responsible for complementation of saccharomyces cerevisiae mutations*, BioTechniques, May 1996, pp. 772-778, vol. 20, no. 5.	
	S 1	CHENG, S., ET AL., *XL PCR amplification of long targets from genomic DNA*, Methods in Molecular Biology, pp. 17-29, vol. 67: PCR Cloning Protocols: From Molecular Cloning to Genetic Engineering, Humana Press Inc.	
	T 1	FOORD, O.S., ET AL., *Long distance PCR*, PCR Methods & Applications, 1994, pp. S149-S161, vol. 3, Cold Spring Harbor Lab.	
	U 1	OHLER, L.D., ET AL., *Optimization of long-distance PCR using a transposon-based model system*, PCR Method & Applications, 1992, pp. 51-59, vol. 2, Cold Spring Harbor Lab. Press.	
	V 1	PONCE, M.R., ET AL., *PCR amplification of long DNA fragments*, Nucleic Acid Research, 1992, pp. 623, vol. 20, no. 3, Oxford Univ. Press.	
	W 1	LINDBERG, A.M., ET AL., *Amplification & closing of complete enterovirus genomes by long distance PCR*, Journal of Virological Methods, 1997, pp. 191-199, vol. 65, Elsevier Science BV.	
	X 1	AKASAKA, T., ET AL., *Long distance polymerase chain reaction for detection of chromosome translocations in B-cell lymphoma/leukemia*, LEUKEMIA, APR. 1997, cover page & pp. 316-317, vol. 11, supp. 3.	
	Y 1	TAKITA, Y., ET AL., *Applications of long & accurate polymerase chain reaction method in yeast molecular biology: direct sequencing of amplified DNA and its introduction into yeast*, YEAST, 1997, pp. 763-768, vol. 13, John Wiley & Sons. Ltd.	
	Z 1	HENGEN, P.H., *Optimizing multiplex & LA-PCR with betaine*, TiBS, 1997, cover & pp. 225-226, 1997, vol. 22, Int'l. Union of Biochemistry & Elsevier Trends Journal.	
V	AA 1	*Long-range PCR: synthesis of products independent of size*, TIG, Nov. 1996, cover & p. 458, vol. 12, no. 11	

PTO/SB/08B (10-01)
Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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				Group Art Unit	N/A
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Sheet	3	of	3	Attorney Docket Number	HO-P02296US1

C/M	AB /	MAGA, E.A., ET AL., *Amplification of a 9.0-kb fragment using PCR,* BioTechniques, Jul. 1991, index & pp. 185-186, vol. 11, no. 1, Eaton Publishing Co.	
	AC /	LAY, J.M., ET AL., *Rapid confirmation of gene targeting in embryonic stem cells using two long-range PCR techniques,* Transgenic Research, 1998, pp. 135-140, vol. 7, Chapman & Hall.	
	AD /	LUTHRA, R., ET AL., *Mapping of genomic t(2;5)(p23;q35) break points . . .,* Hematopathology & Molecular Hematology, 1998, pp. 173-183, vol. 11 (3&4), Marcel Dekker, Inc.	
	AE /	AKASAKA, T., ET AL., *Polymerase chain reaction amplification of long DNA targets . . .,* Int'l Journal of Oncology, 1998, pp. 113-121, vol. 12.	
C/M	AF /	HENGEN, P.N., *Long and accurate PCR,* TiBS, 1994, cover & pp. 341-342, vol. 19, Int'l Union of Biochemistry & Elsevier Trends Journal.	
	~~AG /~~	~~Repbase update, Genetic Information Research Institute, 2001, 4 pp. printed 11/26/01 from www.girinst.org.~~	
	~~AH /~~	~~Virtual Genome Center info., Info. about xprimer, 4. pp. printed 11/26/01 from alces.med.umn.edu.~~	
	~~AI /~~	~~Primer3, 5 pp. printed 11/26/01 from www.genome.wi.mit.edu.~~	
	~~AJ /~~	~~Long PCR reagents & guidelines, 3 pp. printed 06/15/2000 from twod.med.harvard.edu.~~	
C/M	AK /	*Expand long template PCR system,* Specification, ROCHE, Jun. 1999, 4 pp., vers. 3.	
	AJ /	*Expand long template PCR system,* Specification, ROCHE, Sept. 1999, 5 pp., vers. 4.	
C/M	AK /	*Long-range PCR using the expand long template PCR kit,* BOEHRINGER MANNHEIM, 2 pp.	
	~~AJ /~~	~~Tools for data mining, NCBI GenBank, 4 pp. printed 11/26/01 from www.ncbi.nlm.nih.gov.~~	
	~~AK /~~	~~Electronic PCR, NCBI GenBank, 2 pp. printed 11/26/01 from www.ncbi.nlm.nih.gov.~~	

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